



**Department of Energy**  
Richland Operations Office  
P.O. Box 550  
Richland, Washington 99352

0042333  
020561

OCT 10 1995

Mr. Steve M. Alexander  
Perimeter Areas Section Manager  
Nuclear Waste Program  
State of Washington  
Department of Ecology  
1315 W. Fourth Avenue  
Kennewick, Washington 99336-6018

Dear Mr. Alexander:

**100-H AREA IN SITU REDOX MANIPULATION EXPERIMENT PURGEWATER**

The analyses for the purgewater in the 100-H Area In Situ Redox Manipulation Experiment ModuTank has been completed. All analytes are below the purgewater criteria as indicated in the table provided as Attachment 1. The U.S. Department of Energy, Richland Operations Office, is requesting concurrence from the State of Washington, Department of Ecology (Ecology), to discard the purgewater from the ModuTank as per the test plan. If this approach is agreeable to Ecology, please sign and return the attached concurrence form (Attachment 2).

If you want to discuss this matter further or require additional information, please contact me at 373-9631.

Sincerely,

*Arlene C. Tortoso*

Arlene C. Tortoso, Project Manager  
Groundwater Project

GWP:ACT

Attachments: As stated

cc: R. L. Biggerstaff, ERC w/o attaches  
J. S. Fruchter, PNL w/o attaches  
L. E. Gadbois, EPA w/attach 1  
M. H. Sturges, ERC w/o attaches



## 100-H Area ISRM Final Modutank Analysis

## Modutank Concentrations

Samples Collected on Tuesday, September 19

| Sample #       |            | Sulfite<br>SO3<br>ppm | Thiosulfate<br>S2O3<br>ppm | Sulfate<br>SO4<br>ppm | Total Sulfate<br>(oxidized)<br>ppm | Bromide<br>Br<br>ppm | Potassium<br>K<br>ppm | Chromium<br>Cr<br>ppb | Manganese<br>Mn<br>ppb | Zinc<br>Zn<br>ppb | Arsenic<br>As<br>ppb | Lead<br>Pb<br>ppb |
|----------------|------------|-----------------------|----------------------------|-----------------------|------------------------------------|----------------------|-----------------------|-----------------------|------------------------|-------------------|----------------------|-------------------|
| 1614           | West Side  | 304                   | 7.8                        | 1760                  | 2138                               | 19                   | 3020                  | 88                    | 13.9                   | 293               | 76.1                 | 3.8               |
| 1615           | North Side | 778                   | 7.3                        | 1150                  | 2096                               | 19                   | 3000                  | 54.5                  | 14.1                   | 194               | 84.7                 | 2.29              |
| 1616           | East Side  | 777                   | 7.8                        | 1160                  | 2106                               | 19.8                 | 3280                  | 57.8                  | 13.9                   | 240               | 73.4                 | 2                 |
| 1617           | South Side | 787                   | 7.3                        | 1160                  | 2117                               | 19.3                 | 2750                  | 58.3                  | 14.6                   | 196               | 79.2                 | 1.48              |
| Average        |            | 661.5                 | 7.55                       | 1307.5                | 2114                               | 19.275               | 3012.5                | 64.65                 | 14.125                 | 230.75            | 78.35                | 2.3925            |
| Purge Criteria |            | n/a                   | n/a                        | 2500                  | 2500                               | n/a                  | n/a                   | 110                   | 500                    | 1100              | 480                  | 32                |

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The State of Washington, Department of Ecology, has reviewed the ModuTank purgewater data and concurs with the disposal of the purgewater from the ModuTank as per the Test Plan for the 100-H Area In Situ Redox Manipulation Experiment.

CONCURRENCE:

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State of Washington, Department of Ecology

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Date